Listing of Claims

The following listing of claims replaces all prior listings of claims in this application:

1. (Previously Presented) An indicating desiccant for indicating humidity at a relative humidity below 20% by a color change comprising a silica-based material provided with, as the active indicator system, a source of iron and a source of bromide, wherein the desiccant is essentially copper-free, or when copper is present it is in an amount which is less than 0.002% by weight with respect to the anhydrous silica-based material.

2-3. (Cancelled)

- 4. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is present in an amount up to 2.0% by weight, calculated as Fe with respect to weight of the anhydrous silica-based material.
- 5. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is present in an amount of up to 1.0% by weight, calculated as Fe with respect to weight of the anhydrous silica-based material.
- 6. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is present in an amount of up to 0.6% by weight, calculated as Fe with respect to weight of the anhydrous silica-based material.

7. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is

present in an amount of up to 0.45% by weight, calculated as Fe with respect to weight of the

anhydrous silica-based material.

8. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is

present in an amount of at least 0.01% by weight, calculated as Fe with respect to weight of the

anhydrous silica-based material.

9. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is

present in an amount of at least 0.02% by weight, calculated as Fe with respect to weight of the

anhydrous silica-based material.

10. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron

is present in an amount of 0.02 to 1.0% by weight, calculated as Fe with respect to weight of the

anhydrous silica-based material.

11. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron

is present in an amount of 0.05 to 0.3% by weight, calculated as Fe with respect to weight of the

anhydrous silica-based material.

12. (Previously Presented) A desiccant as claimed in claim 1 in which the bromine

content is equal to, or greater than, the amount of iron.

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- 13. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is at least 0.1:1.
- 14. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is at least 0.5:1.
- 15. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is at least 1:1.
- 16. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is up to 100:1.
- 17. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is up to 50:1.
- 18. (Previously Presented) A desiccant as claimed in claim 1 in which the source of bromide is present in an amount such that the weight ratio of Br to Fe is up to 20:1.
- 19. (Previously Presented) A desiccant as claimed in claim 1 in which the bromide source comprises a water soluble salt.
 - 20. (Previously Presented) A desiccant as claimed in claim 1 in which the bromide

source is selected from one or more of the group consisting of alkali metal bromides, alkaline earth metal bromides, transition metal bromides and ammonium bromide.

- 21. (Previously Presented) A desiccant as claimed in claim 1 in which the bromide source is selected from one or more of the group consisting of sodium bromide, potassium bromide, calcium bromide, magnesium bromide, zinc bromide and ammonium bromide.
- 22. (Previously Presented) A desiccant as claimed in claim 1 in which the source of iron is an iron (III) salt or salts.
- 23. (Currently Amended) A desiceant as claimed in claim 1 An indicating desiccant for indicating humidity at a relative humidity below 20% by a color change comprising a silicabased material provided with, as the active indicator system, a source of iron and a source of bromide, wherein the desiccant is essentially copper-free, or when copper is present it is in an amount which is less than 0.002% by weight with respect to the anhydrous silica-based material, in which the iron source is provided by one or more salts selected from the group consisting of iron(II) sulphate, iron(III) chloride, iron(III) nitrate, iron(III) sulphate, ammonium iron(III) sulphate, ammonium iron(III) sulphate.
- 24. (Previously Presented) A desiccant as claimed in claim 1 in which the silica-based material is silica gel.

- 25. (Original) A desiccant as claimed in claim 24 in which the silica gel is a beaded silica gel.
- 26. (Original) A desiccant as claimed in claim 24 in which the silica gel is a granular silica gel.
- 27. (Previously Presented) A desiccant as claimed in claim 24 in which the silica gel is a dry or humidified gel.
- 28. (Previously Presented) A desiccant as claimed in claim 24 in which the silica gel has a pore volume to nitrogen in the range 0.2 to $2.0 \, \text{cm}^3 \text{g}^{-1}$ and a BET surface area in the range $200 \, \text{to} \, 1500 \, \text{m}^2 \text{g}^{-1}$.
- 29. (Original) A method of preparing an indicating desiccant comprising impregnating a silica-based material with a source of iron and a source of bromide to produce an essentially copper-free product in which the iron and bromide are the active indicators.
- 30. (Original) A method as claimed in claim 29 in which the source of iron is present in an amount up to 2.0 per cent by weight, calculated as Fe with respect to weight of the anhydrous silica-based material, and the source of bromide in an amount such that the weight ratio of Br to Fe is at least 0.1:1.

- 31. (Previously Presented) A method as claimed in claim 29 in which a humidified silica gel containing from 20 to 30% by weight water is soaked in a solution containing from 0.1% to the saturation point of an iron salt and a source of bromide, excess solution is drained from the treated silica gel and the silica gel is dried at a temperature in the range 80°C to 230°C.
- 32. (Original) A method as claimed in claim 31 in which the gel is soaked in said solution for a period in the range of 2 to 24 hours.
- 33. (Original) A method as claimed in claim 30 in which impregnation is effected by mixing a humidified silica gel containing from 15 to 30 per cent moisture by weight with a solution containing a source of iron and a source of bromide, the amount of solution used being just sufficient to produce the required loading of iron and bromide on the silica gel, and subsequently drying the treated silica gel at a temperature in the range 80°C to 230 °C.
- 34. (Previously Presented) A desiccant as claimed in claim 1, wherein the desiccant is essentially copper-free.
- 35. (Previously Presented) The desiccant as claimed in claim 1, wherein copper is present in an amount less than 0.002% by weight with respect to the anhydrous silica-based material.